N1-1 CONFIGURATION POST 3A UMBILICAL OPERATIONS

1. VERIFY FGB POWER GENERATION STATUS On EV GO: PCS2 Tasks: 3A Assembly Config 3A Assembly Config 'FGB EPS' √Main Bus Volts 1,2 (two): 28.0 --- 29.0 $\sqrt{\text{Battery 1 Volts 1 thru 6 (six)}} > 25.5$ * If any Battery Voltage < 25.5 V Notify MCC-H: "FGB batteries low." Wait 1 revolution for FGB battery charge. * 2. COMMAND RACU 6 ON SM 204 FGB √COMMANDING - INH (Moscow commanding) If COMMANDING - INH RUSSIAN GROUND AOS LOS Pass 1 Pass 2 Shuttle **V** MCC-H: "Ready for RACU 6 Power On." MCC-H ⇒ MCC-M: "Go for RACU 6 Power On." MCC-M \Rightarrow MCC-H $\hat{\parallel}$ shuttle: "RACU 6 Power On at / : : ." If COMMANDING - ENA (crew commanding) Shuttle **↓ MCC-H**: "Ready for RACU 6 Power On." MCC-M ⇒ MCC-H: "Go for RACU 6 Power On." MCC-H ↑ shuttle: "Moscow Go for RACU 6 Power On." On MCC GO: PCS2 3A Assembly Config 'FGB EPS'

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cmd RACU 6 Power - On

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√Input Current > 3.0 A
  \sqrt{\text{Output Current}} > 0.3 --- 10 \text{ A}
  √Output Voltage: 121 --- 125 V
                      NOTE
    Output current should be 0.5 A at power on.
    Current could be as high as 10 A after MDM
    initialization (approximately 2.5 minutes),
    depending on heater usage.
   Shuttle 

MCC-H: "RACU 6 Power On at ___/_:__:_ GMT."
   * If Output Current > 10 Amps *
         cmd RACU 6 - Off
        √MCC-H
3. VERIFY MDM STATES
   'Primary NCS'
  √MDM ID - N1-2
  √MDM State - Primary
  √Frame Count - <incrementing>
   'Secondary NCS'
  √MDM ID - N1-1
  √MDM State - Standby
  √Frame count - <incrementing>
4. COMMAND N1-1 TO SECONDARY
   'N1-1 MDM'
   cmd Secondary State - Transition
  √Frame Count - <incrementing>
  √Major State - Secondary
   * If Major State not correct, √MCC-H. *
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√RACU 6 Power - On

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5. ENABLE RT DEVICE I/O ON EPS BUSES

* If N1-2 powerdown will be delayed *

* 'Primary NCS' *

* cmd Auto Retry - Ena *

* √Auto Retry - Enable *

'Primary NCS UB EPS N1 14 RPCM'

cmd N1RS1 A - Ena cmd N1RS1 B - Ena cmd N1RS1 C - Ena √RT Inhibit 20, 19, 18 (three) - <blank>

NOTE MCC will command the Aft Port IMV Fan On.

6. PROVIDE POWER TO N1-1 MDM SDO CARD 'N1-1 SDO Card Power'

cmd RPCM N1RS1 A RPC 5 - CI $\sqrt{\text{Pos}}$ - CI $\sqrt{\text{Tripped}}$ - No

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